Art Unit 2651 Serial No.10/698,273

Reply to Office Action of: June 28, 05 Attorney Docket No.: K35A1342

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (Original) In a disk drive comprising at least one head and at least one disk having at least one disk surface, each surface having a plurality of concentric zones, a method for reducing a servo channel head gain calibration time during the disk drive initialization, the method comprising:

selecting a first disk surface;

initiating a first servo channel head gain calibration process for a first head corresponding to the selected first disk surface;

obtaining a first head gain calibration value for a pre-selected zone in the selected first disk surface;

comparing the obtained first calibration value with a first pre-stored calibration value for the pre-selected zone and generating a first comparison result; and

stopping the first calibration process for the first head if the first comparison result does not exceed a threshold value.

- 2. (Original) The method of claim 1, wherein the first pre-stored calibration value is obtained from a first pre-stored calibration value table.
- 3. (Original) The method of claim 1, wherein the first pre-selected zone is at a median radial location between a first zone in the plurality of concentric zones located closest to a center of the disk surface and a second zone in the plurality of concentric zones located farthest from the center of the disk surface.
- 4. (Original) The method of claim 1, wherein the first pre-selected zone is a zone in the plurality of concentric zones located closest to a center of the disk surface.

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- 5. (Original) The method of claim 1, wherein the first pre-selected zone is a zone in the plurality of concentric zones located furthest from a center of the disk surface.
- 6. (Original) The method of claim 1, further comprising: performing the first servo channel head gain calibration process for each zone in the plurality of zones if the first comparison result exceeds the threshold value.
- 7. (Original) The method of claim 1, further comprising: performing the first servo channel head gain calibration process for a subset comprising at least two of the plurality of zones if the first comparison result exceeds the threshold value.
- 8. (Original) The method of claim 1, wherein the threshold value corresponds to a pre-selected deviation of the first head gain calibration value from the first pre-stored calibration value.
- 9. (Original) The method of claim 8, wherein the pre-selected deviation is a ten percent deviation of the first head gain calibration value from the first pre-stored calibration value.
- 10. (Original) The method of claim 1, wherein the disk drive comprises a plurality of heads and a plurality of disks each having at least one disk surface, wherein the method further comprises:

selecting a second disk surface;

initiating a second servo channel head gain calibration process for a second head corresponding to the selected second disk surface;

obtaining a second head gain calibration value for a pre-selected zone in the selected second disk surface;

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comparing the obtained second calibration value with a second pre-stored calibration value for the pre-selected zone and generating a second comparison result; and

stopping the second calibration process for the second head if the second comparison result does not exceed the threshold value.

11. (Original) The method of claim 10, further comprising: repeating the selecting, the initiating, the obtaining, the comparing and the stopping for each head in the plurality of heads.